

ZMECHOROVSKAYA, G.A., kand.med.nauk

Rhinocytoscopy by G.T.Pavlovskii's method for the diagnosis of
viral influenza; preliminary report. Lab.delo 9 no.3441-44 Mr
'63. (MYRA 16:4)

(NOSE---MICROBIOLOGY) (INFLUENZA)

YUGOSLAVIA

JURIN-ZMEGAC, Zdenka, and ZMEGAC, Zorislav, Clinic for Skin and Venereal Diseases (Dermatovenerološka Klinika), Faculty of Medicine (Medicinski Fakultet), Zagreb.

"The Treatment of Pyodermy with a Staphylococcal Antitoxin."

Zagreb, Radovi Medicinskog Fakulteta u Zagrebu, Vol 11, No 2, 1963, pp 181-191.

Abstract: [Authors' German summary modified] The antitoxin, produced by the Immunological Institute in Zagreb, proved helpful in 10 diverse cases of staphylodermy. The clinical effects in most of the cases involved the disappearance of traces of new follicular infections. No undesirable side-effects were noted. The antitoxin therefore seems suitable for application in human beings and should find a place in modern combined therapy in this field.

One table, two photographs, two Yugoslav and 19 Western references of recent date.

1/1

- 18 -

CAJKOVAC, Prof., Dr.; ORHEL, I., Dr.; ~~ZMEGAC, E., Dr.~~; (Zagreb)

In lieu of an answer to dr. I. E. Grin. Med. arh., Sarajevo
8 no.6:77-83 Nov-Dec 54.

(SYPHILIS.
in Yugosl. (Ser))

111 AND 110 COLUMNS										112 AND 111 COLUMNS									
PROCESS AND PROPERTIES INDEX																			
M										22									
<p>Use of Scrap Aluminium for the Manufacture of Tuyeres Used in Blast Furnaces. I.A. Zvol (Litsynce Delo (Foundry Practice)), 1941, 12, (5) 25-26; Chem. Zentr., 1942, 113, (11), 887; C. Abs., 1943, 37, 4342).6 (In Russian) Aluminium alloys from scrap aluminium can be cast into tuyeres for use in blast furnaces. The alloy which was found best for the purpose contained copper 0.86, silicon 9.47, iron 0.71, manganese 0.061, magnesium 0.15%.</p> <p>balance aluminum. Pouring properties are good, and mechanical properties and heat conductivity are satisfactory.</p>																			
<p>ASM - ILLA METALLURGICAL LITERATURE CLASSIFICATION</p>																			
SECOND DIVISION										THIRD DIVISION									
SUBJECT										SUBJECT									
SUBJECT										SUBJECT									

ZMELYANSKIY, S. B., Prof

FA 28/49783

USSR/Medicine - Hygiene and Sanitation Aug 48
Medicine - Bibliography

"At the Fourth Session of the Department of
Hygienists, Epidemiologists and Microbiologists,
Society of Medical Sciences USSR," Prof Z. B.
Zmeyanskiy, 1 1/2 pp

"Sig 1 Ser" No 8

Reviews Fourth Session, 21-24 May 48, devoted
exclusively to problems of hygiene with five re-
ports. Three on principal problems of methodology,
criticism of present condition of sanitation
science, its tasks and methods of work, and two

PTB 28/49783

USSR/Medicine - Hygiene and Sanitation Aug 48
(Contd)

on problems of albumin (O. P. Molobanov) and hygiene
of excessive mental labor (A. I. Ietavet).

PTB 28/49783

1. ZMELYANSKIY, Z. B.
2. USSR (600)
3. Lungs - Dust Diseases
4. Results of work in silicosis prevention; second Interdepartmental All-Union Conference on the Problem of Silicosis Control.
Gig.i san. Vol. 17, No. 10 - 1952.

9. Monthly List of Russian Acquisitions, Library of Congress, February, 1953. Unclassified.

PLACAK, B.; ZMEŇA, B.; MAVRATIL, J.

Contribution to the surgical treatment of anomalous drainage
of the pulmonary veins. Rozh.chir.42 no.11:794-799 N°63.

*

ZMERZLAYA, Ye.I.

Role of coarse fish in the spreading of coccidial enteritis
in carp. Zool. zhur. 43 no.9:1408-1410 '64.

1. Gosudarstvennyy nauchno-issledovatel'skiy institut ozernogo i
rechnogo rybnogo khozyaystva, Leningrad. (MIRA 17:11)

KOUTNY, V., MUDr.; VEGEROVA, N.; ZMESEAL, A. MUDr.

Absenteeism in the faculty hospital at Olomouc. Česk. zdravot. 7
no.1:32-36 Jan 59.

1. Krajský ústav národního zdraví v Olomouci - Fakultní nemocnice,
(HOSPITAL ADMINISTRATION
absenteeism in Czech. hosp. employees (Cz))

RESSL, J.; LUKL, G.; WEINBERG, J.; ZMESKAL, A.; with the technical assistance
of KOLAROVA, F.

Ventilatory function in mitral stenosis. Cor Vasa 3 no.3:202-214 '61.

1. The First Medical Clinic, Palacky University, Olomouc.

(MITRAL STENOSIS physiol)
(RESPIRATION physiol)

ENDRYŠ, J.; LUKL, P.; PROCHÁZKA, J.; RESSL, J.; ZMĚSKAL, A.

The influence of acetylcholine on pulmonary hypertension. Cor Vasa
4 no.1:32-41 '62.

1. Department for Cardiac Surgery, Medical Faculty, Hradec Kralove,
and First Medical Clinic, Palacky University, Olomouc.
(ACETYLCHOLINE therapy) (HYPERTENSION PULMONARY therapy)

NOVOTNY, Z.; PRACE, T.; VYKYDAL, M.; ZMESKAL, A.

Fibrous bone dysplasia. Cas. lek. cesk. 104 no. 15-21 3 Ja '65

1. I. interni klinika lekarske fakulty Palackeho University v Olomouci (prednosta - prof. dr. P. Lukl) a klinika pro ortopedickou chirurgii lekarske fakulty Palackeho University v Olomouci (zast. prednosta - doc. dr. K. Wagner).

KUBASTA, M.; VYKYDAL, M.; BLANOS, J.; ZIESKAL, A.; GIKALOVVA, I.

Electrocardiographic changes during chloroquine treatment.
Vnitřní lek. 11 no.4:361-369 Ap'65.

1. III. vnitřní klinika lékařské fakulty Palackého University
v Olomouci (prednosta: prof. MUDr. V. Pelikan) a Vyzkumny
endokrinologický ústav v Praze (reditel: doc. MUDr. K. Silink).

HOREJSI, J.; LEHKY, T.; NIKL, J.; ZMESKALOVA, D.; technicka spoluprace:
JEHLICKOVA, M.; STERBIKOVA, J.

Use of heterologous plasma with glutathione in exsanguinated experimental
animals. Rozhl. chir. 41 no.10:662-666 0 '62.

1. Ustav hematologie a krevni transfuze v Praze, reditel prof. dr.
J. Horejsi, DrSc.

(GLUTATHIONE) (BLOOD TRANSFUSION) (HEMORRHAGE)

CZECHOSLOVAKIA

T. LEHKY, D. ZMESKALOVA and J. MALEK, Institute of Hematology and Blood Transfusion (Ustav hematologie a krevni transfuze,) Prague; and Antibiotics Research Institute (Vyzkumny ustav antibiotik,) Rostoky.

"Effect of Dextran on Allergic Reactions in Rats."

Prague, Ceskoslovenska Farmacie, Vol 12, No 5, June 63; pp 251-253.

Abstract [English summary modified]: Dextran of any of 5 batches differing widely in branching and molecular weight causes typical anaphylactoid reactions in rats given i.p.; cortisone delays but does not prevent or modify them; procaine amide and analergin (2-phenylbenzylamino-methylimidazoline methanesulfonate) have no effect thereon; promethazine prevents them. Table, graph; 3 Czech and 9 Western references.

1/1

ZMESKALOVA, D.; LEHKY, T.

Study of the effect of some antihistaminics on the origin
and course of allergic reactions in rats following Checho-
slovakian dextran. Cesk. farm. 13 no.1:9-11 Ja'64.

1. Ustav hematologie a krevni transfuse, Praha.

*

PALUSKA, E.; ZMESKALOVA, D.; JOZOVA, O.; LIVORA, J.

Immunologic response to the administration of Czechoslovak modified beef serum to man. Cas. lek. cesk. 104 no.15:412-415
16 AP'65.

1. Ustav hematologie a krevni transfuze v Praze (reditel: prof. dr. J. Horejsi, DrSc.).

MELAMED, Sh.G., POLYAKOV, S.M., ZMESKOVA, H.G.

Spectrum analysis of the rare earths. Zav. lab 26 no. 5:554-556
'60. (MIRA 13:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut redkometallicheskoj promyshlennosti.
(Rare earths--Spectra)

ABRAMOV, L.K., doktor arkhitektury, prof., red.; ZMETNYI, A.Ya., kand.
tekhn. nauk, dotsent, red.

[Construction industry; reports of the 20th Scientific Conference]
Stroitel'noe proizvodstvo; doklady XX nauchnoi konferentsii. Le-
ningrad, 1962. 39 p. (MIRA 16:1)

1. Leningrad. Inzhenerno-stroitel'nyy institut. Nauchnaya konfe-
rentsiya.

(Construction industry)

ZMETNYI, A.Ya., kand. tekhn. nauk, dots.; LEBEDEVA, I.A., red.

[Curved surfaces; textbook for a course in descriptive geometry] Krivye poverkhnosti; uchebnoe posobie po kursu nachertatel'noi geometrii. Leningrad, Leningr. inzhenerno-stroit. in-t, 1963. 21 p.

(MIRA 17:4)

YEVTEYEV, Viktor Ivanovich; ZMETNIY, Aleksey Yakovlevich; NOVIKOV,
Igor' Vladimirovich; AVDUYEVSKAYA, G.V., red.; ASHINA,
N.I., tekhn. red.

[Plotting of a perspective drawing; manual for teachers]
Postroenie perspektivnogo risunka; posobie dlia uchitelei.
Leningrad, Uchpedgiz, 1963. 198 p. (MIRA 17:1)

SHTEFAN, Radu [Stefan, Radu], profsoyuznyy organizator grupp; ZMEU, Mihay
[Zmamu, Mihai]; PYRVAN, Aleksandru [Pirvan, Aleksandru]

Trade-union group organizers of Rumania share their experience. Sov.
profsoiuzy 18 no.10:25-26 My '62. (MIRA 15:5)

1. Organizator 14 profgruppy Novogo tsekha Reshitskogo metallurgicheskogo kombinata (for Zmeu).
 2. Organizator 2-y profgruppy tsekha pervichnoy distillyatsii Nefteochistitel'nogo zavoda, Ploiesti (for Pyrvan).
- (Rumania--Trade unions)

ZMEUL, S., kand.arkhitektury; SHESTOPALOV, V., arkhitektor

New model plans for schools and children's institutions.
Na stroi. Ros. no.5:5-7 My '61.

(MIRA 14:7)

(Schoolhouses—Designs and plans)

(Kindergartens—Designs and plans)

(Nursery schools—Designs and plans)

ZMEUL, S., kand.arkhitektury

Experimental design and construction of schools and children's
institutions. Zhil.stroi. no.12:1-7 '64.

(MIRA 18:2)

TUGARENOV, A.I.; ZYKOV, S.I.; ZABYANKOVA, A.V.

Relation between the isotopic composition of lead ores and
rocks in some ore provinces. Metod. opr. zhs. Vost. geol.
obr. no.6:11-16 '64 (MIRA 18:2)

TUGARINOV, A. I.; ZMEYANKOVA, A. V.

Sources of ore matter associated with endogenous ore formation.
Sov. geol. 3 no.4:66-78 Ap '60. (MIRA 13:11)

1. Institut geokhimii i analiticheskoy khimii AN SSSR imeni
V.I. Vernadskogo.

(Ores)

Zmeyenkova, A.V.

AUTHORS: Aleksandrov, I. V., Zmeyenkova, A. V.

7-1-5/12

TITLE: The Evolution of Rocks During Progressive Metamorphism
(Shown by the Example of the Middle Formation of the Krivoi
Rog Series)
(Evolutsiya porod pri progressivnom metamorfizme (Na primere
sredney svity Krivorozhskoy serii))

PERIODICAL: Geokhimiya, 1958, Nr 1, pp. 47-59 (USSR).

ABSTRACT: The pre-Cambrian Krivoi Rog series (called also Saksagan series)
is divided into three layers; the middle consists alternatively
of rocks rich and poor in iron (ore- and schist horizons). Accord-
ing to the changes of the content of minerals in the course of
metamorphism three groups of rocks can be distinguished:
A. Rich in aluminum and comparatively poor in iron.
B. Rich in aluminum and iron; with two subgroups:
1) Chlorite- and quartzchlorite slate.
2) Magnetite-chlorite- and magnetite-stilpnomelane slate.
C. Rich in iron and very poor in aluminum.
The mineral content is given for each group and their formation
is discussed.

Card 1/3

The Evolution of Rocks During Progressive Metamorphism
(Shown by the Example of the Middle Formation of the Krivoi Rog Series) 7-1-5/12

The changes in the chemical composition are shown in a diagram which contains 75 analyses; the abscissa is formed by the atomic percents of the most important components, the ordinate by the value of $Fe^{2+} + Fe^{3+}$ of the analysis in question. The reaction of the individual chemical elements in the course of metamorphism is discussed; here it can be distinguished between:

- 1) Elements the content of which is not changed to a considerable extent in the case of progressive metamorphism. iron.
- 2) Elements the content of which changes in the course of the process, an increase in the one rock corresponds, however, to a decrease in another. silicon, aluminum, magnesium.
- 3) Elements the content of which only increases or decreases. sodium, potassium, CO_2 .

Rearrangements to this extent can occur only by the transport of solutions. In the course of metamorphism there was almost equilibrium between rock and solutions. During metamorphism solutions various also according to their composition are bound to have been formed in the rocks of various composition.

There are 3 figures, 2 tables, and 6 references, 6 of which are Slavic.

Card 2/3

The Evolution of Rocks During Progressive Metamorphosis
(Shown by the Example of the Middle Formation of the Krivoi Rog Series) 7-1-5/12

ASSOCIATION: Institute of Geochemistry and Analytical Chemistry imeni
V. I. Vernadskiy AS USSR, Moscow
(Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR Moskva)

SUBMITTED: July 13, 1957.

AVAILABLE: Library of Congress.

1. Geology 2. Metamorphosis-Stone 3. Rock-Analysis

Card 3/3

1. ZMEYEV, A.
2. USSR (600)
4. Economy Conditions - Pakistan
7. Economy and foreign trade of Pakistan. Vnesh. torg. 22. no. 12: 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZMEYEV, A.; BIRYUZOV, I.

Present-day situation of the rolling stock market. Vnesh.trog. 29
no.7:28-34 '59. (MIRA 12:11)
(Railroads--Rolling stock)

ZMEYEV, Aleksey Andreyevich; KOVALEV, Nikolay Grigor'yevich;
PIKUZ, A.N., red.; POPOV, A.N., red.izd-va; TSACHHIYA, G.M.,
tekhn.red.

[Railroad rolling stock; the production and foreign trade of
capitalist countries] Zheleznodorozhnyi podvishnoi sostav;
proizvodstvo i vneshniaia torgovlia kapitalisticheskikh stran.
Moskva, Vneshtorgizdat, 1962. 214 p.

(MIRA 16:1)

(Railroads—Rolling stock) (Commerce)

ZMEYEV, A.

Basic trends of the capitalist equipment market. Vnesch. torg. 42
no.8:30-34 '62. (MIRA 15:9)

(Machinery industry)

KOVALEV, N.G.; ZMEYEV, A.A.; LUKIN, Ye.I.; PADINA, G.I.; KATIN,
V.K.; SYSHCHIKOV, Yu.T.; VLASOV, A.V.; KARPOV, I.N.;
ASTAKHOV, A.S.; DARONYAN, M., red.; MOSKVIN, R., tekhn.
red.

[Africa in figures; a statistical manual] Afrika v tsif-
rakh; statisticheskii spravochnik. Moskva, Sotsekgiz,
1963. 566 p. (MIRA 16:11)
(Africa--Statistics)

ZMEYEV, A.

The European Economic Community and the industrial equipment
market. Vnesh.torg. 42 no.1:17-23 '63. (MIRA 16:2)
(European Economic Community)
(Europe, Western—Machinery industry)

RUSSIAN MEDICAL Sec.17 Vol.4/1 Public Health, etc. Jan58
ZMEYEV, G. Ya.

94. ZMEYEV G. Ya. Some data on *E paratyphoid fever* (Russian text) Z. Mikrobiol. 1957, 1 (31-34)

Among the various groups of salmonellae, group E with *S. anatum*, *S. london*, *S. meleagridis* plays a role in human infections. These infections occur in USSR, Scandinavia, England, China, Indonesia and South America. The author refers to 2 outbreaks of *S. anatum* infections. One outbreak involved 42 construction workers in a southern town of USSR. Abrupt fever, headache and malaise were common in all patients. The Widal test with *S. anatum* was positive. Consumption of poorly prepared food (goose) was responsible for the illness. The second focus of infection occurred in a Baltic town and involved 46 individuals who after consumption of pork came down with fever,

94
headache and malaise. The Widal test with *S. anatum* was positive up to
1:800 in 80 % of cases. Anigstein — Galveston, Tex. (XX, 4, 17)

~~ZMEYEV~~, G.Ya., sotrudnik; ANSHELES, I.M., red.

[Epidemiology; a guide book for epidemiologists and public health physicians] Epidemiologiia; posobie dlia epidemiologov i sanitarnykh vrachei. Leningrad Medgiz, 1957. 622 p. (MIRA 11;6)

1. Leningradskiy institut epidemiologii, mikrobiologii i gigieny
im. Pastera (for Zmeyev)
(EPIDEMIOLOGY)

ZMEYEV, G.Ya.

"Problems in the immunology and epidemiology of scarlet fever and streptococcal infections." Reviewed by G.IA Zmeev. Zhur. mikrobiol.epid. i immun. 29 no.2:141-142 F '58. (MIRA 11:4)
(SCARLET FEVER) (STREPTOCOCCAL INFECTIONS)

FIGURINA, Mariya Mikhaylovna; ZMEYEV, G.Ya., red.; SAFRONOVA, I.M., tekhn.
red.

[Typhus fever] Sypnoi tif. Leningrad, Medgiz, 1962. 10 p.
(MIRA 16:2)

(TYPHUS FEVER)

ZMEYEV, Georgiy Yakovlevich; BEZNOSOVA, S.N., red.; BUGROVA, T.I.,
tekh. red.

[Tularemia]Tuliaremia. Leningrad, Medgiz, 1962. 15 p.
(MIRA 16:1)

(TULAREMIA)

ZMEYEV, G.Ya., prof., red.; BOTVINNIK, S.V., red.

[Practical disinfection; the Leningrad system of handling epidemic focuses from a single center] Prakticheskaja dezinfektsiia; Leningradskaia sistema obsluzhivaniia epid-ochagov iz edinogo tsentra. Leningrad, Izd-vo "Meditsina," 1964. 191 p.

(MIRA 17:5)

SHAPOVAL, Aleksey Nikitich; ZMEYEV, G.Ya., red.

[Japanese encephalitis; encephalomyelitis] Японский
ентсефалит; энцефаломиелит. Ленинград, Медицина,
1965. 261 p. (MIRA 19:1)

ZMEYEV, L.M., inzh.

Mechanizing the conveying operations in spinning mills. Mekh.i
avtom.proizv. 16 no.3:20-25 Mr '62. (MIRA 15:4)
(Spinning) (Conveying machinery)

ZMEYEV, Yu.I.

Modernizing the braking system of a welding rod on A-547r semi-automatic machines. Svar.proizv. no.11:37-38 N '62.

(MIRA 15.12)

1. Kiyevskiy mototsikletnyy zavod.
(Electric welding—Equipment and supplies)

ZMEYEV, Yu.N.

[Science and religion on the universe; an analysis of the theory of the "heat death" of the universe from the viewpoint of natural science and philosophy] Nauka i religia o Vselennoi; estestvennonauchnyi i filosofskiy analiz teorii "teplovoi smerti" Vselennoi. Kiev, Naukova dumka, 1964. 67 p.
(MIRA 17:12)

STUKKEY, K.I.; OMOLYANSKAYA, P.C.; ZMEYEVA, G.I.

Content of anthracene derivatives in the bark of alder buckthorn.
Report No. 1. Rast.res. 1 no.3:369-372 '65.

(MIRA 18:10)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

ZMEYEVA, L. P., Cand Med Sci -- (diss) "Treatment of angio-
spastic gangrene with novocain block^{and sleep}." Khabarovsk, 1957.
15 pp (Khabarovsk State Med Inst), 200 copies (KL, 1-58, 121)

- 95 -

RUBENAU, Lev Sergeyevich; ZMEYEVA, N.Ya., kand.pedagog.nauk, red.;
VERETSIAKOVA, Ye.S., bibliograf.red.

[Atomic energy in the service of peace; materials for
exhibitions of books and illustrations] Atomnaya energiya
na sluzhbu mira; materialy dlia knizhno-illiystrativnykh
vystavok. Leningrad, Gos.publichnaya biblioteka im. M.E.
Saltykova-Shchedrina, 1960. 37 p. (MIRA 13:9)
(Atomic energy--Exhibitions)

ZIL'BERMAN, N. YA.
ZIL'BERMAN, Lyudmila Veniaminovna; ZMEYEVA, N. Ya., redaktor

[Guide to foreign bibliographies of technical literature, 1945-1956]
Putevoditel' po inostrannoï bibliografii tekhnicheskoi literatury
(1945-1956). Pod red. N. Ia. Zmeevoi. Leningrad, Gos. publichnaiia
biblioteka im. M. E. Saltykova-Shchedrina, 1957. 300 p. (MLRA 10:10)
(Bibliography--Technology)

ZIL'BERMINTS, Lyudmila Veniaminovna; VOLOSHINA, D.A., red. [deceased];
ZMEYEVA, N.Ya., red.; VERETSIAKOVA, Ye.S., bibliograf.red.;
KRYUCHKOVSKIY, S.A., bibliograf.red.

[Bibliography of Soviet technical bibliography, 1917-1959]
Bibliografiia sovetskoi tekhnicheskoi bibliografii 1917-1959.
Pod red. D.A.Voloshina i N.IA.Zmeevoi. Leningrad, M-vo
kul'tury RSFSR. Gos.publichnaia biblioteka im. M.E.Saltykova-
Shchedrina, 1959. 505 p. (MIRA 13:1)
(Bibliography--Technology)

ZMEYEVA, N.YA.

DREVING, A.M.; ZMEYEVA, N.Ya.; MOKHOVA, U.K., redaktor

[Work with special kinds of technical literature; a manual for librarians] Rabota so spetsial'nymi vidami tekhnicheskoi literatury: posobie dlia bibliotekarei. Leningrad, Gos. publichnaya biblioteka im. M.E. Saltykova-Shchedrina, 1957. 107 p. — — — [List of patent classes and concise catalog of subject headings] Perechen' patentnykh klassov i kratkii predmetnyi ukazatel'. (Perepechatano iz spravochnika: "Ukazatel' klassov patentov i avtorskikh svidetel'stv, vydavaemykh v SSSR, 1950 g."). Leningrad, Gos. publichnaya biblioteka im. M.E. Saltykova-Shchedrina, 1957. 83 p. (MLRA 10:10)
(Subject headings) (Patents--Classification)

DREVIN, Anastasiya Mikhaylovna; ZMEYKOVA, Nina Yakovlevna; MOSEHOVA, U.K.,
redaktor

[Work with special kinds of technical literature; a manual for
librarians] Rabota so spetsial'nymi vidami tekhnicheskoi literatury;
posobie dlia bibliotekarei. Leningrad, Gos. publichnaya biblioteka
im. M.E. Saltykova-Shchedrina, 1957. 107 p. (MLA 10:10)
(Libraries--Staff manuals) (Patents) (Standardization)

ZMEYKOV, V.N.; USTIMENKO, B.P.

Investigating the heat transfer to mercury in the transition
region under conditions of an internal problem. Trudy Inst.
energ. AN Kazakh SSR 3:147-155 '61. (MIRA 14:12)

(Heat-Transmission)

(Mercury)

ZMEYKOV, V.N.; KEL'MANSON, I.A.; USTIMENKO, B.P. (Alma-Ata)

"Hydrodynamics and heat transfer in the annular canal with
an inner rotating cylinder"

report presented at the 2nd All-Union Congress on Theoretical
and Applied Mechanics, Moscow, 29 Jan - 5 Feb. 64.

ZMEYKOV, V.N.; USTIMENKO, B.P.

Aerodynamics and heat transfer in an annular channel with an
inner rotating cylinder. Probl. teploenerg. i prikl. teplofiz.
no.1:148-172 '64. (MIRA 18:8)

ZMETEV, V.D.; KELIMANSON, I.A.; OSTRENIKO, B.F.

Turbulent structure of a flow in an annular channel with an inner rotating cylinder. Probl. teploenerg. i prikl. teplofiz. no.1:173-181 '64.
(MIRA 18:8)

ACCESSION NR: AP4038440

S/0294/64/002/002/0250/0259

AUTHORS: Ustimenko, B. P.; Zmeykov, V. N.

TITLE: Hydrodynamics of flow in an annular channel with an internal rotating cylinder

SOURCE: Teplofizika vy*sokikh temperatur, v. 2, no. 2, 1964, 250-259

TOPIC TAGS: turbulent liquid flow, vortex effect, flow through annular channel, Reynolds number, velocity distribution, heat flow

ABSTRACT: In view of the lack of systematic and reliable data on the structure of vortical streams, and particularly their turbulent structure, an investigation was made of the hydrodynamics of a circular stream of incompressible liquid in a closed annular channel with an internal rotating cylinder. The setup consisted of two co-axial balanced metallic cylinders producing an annular channel 310 mm o.d., 212 mm i.d., and 400 mm long. The inside cylinder was ro-

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ACCESSION NR: AP4038440

tated relative to the outer cylinder by a motor (2700 ± 10 rpm), and the outer cylinder was kept at a constant temperature with a water jacket. The measurement procedure is described and data on the velocity profiles, the static pressure, and the tangential friction stress are given in detail for different flow conditions and for a Reynolds number range $10^4 \leq Re \leq 10^5$. A generalized velocity profile, which coincides in the near-wall region with the logarithmic profile customarily obtained in flow over flat smooth surfaces, is obtained also for this case. Asymptotic formulas are then derived for the velocity distribution and for the resistance coefficient; these are valid for large values of the dynamic Reynolds number Re^+ . Data on the turbulent microstructure of the stream and on the heat flow will be reported in later papers. "The authors are grateful to Professor L. A. Vulis for a discussion of the results and for valuable advice. Orig. art. has: 6 figures, 21 formulas, and 1 table.

Card 2/4

ACCESSION NR: AP4038440

ASSOCIATION: Institut energetiki Akademii nauk KazSSR (Institute of
Power Engineering, Academy of Sciences, KazSSR)

SUBMITTED: 27Apr63

DATE ACQ: 09Jun64

ENCL: 01

SUB CODE: ME

NR REF SOV: 005

OTHER: 006

Card 3/4

ACCESSION NR: AP4038440

Summary of data on flow conditions prevailing in the experiments

ENCLOSURE 01

experiments

prevailing in

№ п.п.	n, об/мин	u_1 , м/сек	Re	Ta	$\tau_0 \cdot 10^3$, кгс/см ²
1	500	5,54	17000	12850	---
2	700	7,76	23800	18000	0,35
3	1000	11,10	34000	25600	0,88
4	1200	13,32	40800	30800	1,14
5	1500	16,65	51000	38500	1,68
6	1700	18,86	57700	43600	2,08
7	2000	22,20	68000	51300	2,72
8	2200	24,40	74700	56500	3,20
9	2500	27,75	85000	64200	4,00
10	2700	30,00	91800	68300	4,64

erial no. 2

1 - serial no. 2 - n, rpm, 3 - u_1 , m/sec, 4 - tangential friction stress on the stationary wall, kg/m² (force)

Card 4/4

S/137/62/000/007/035/072
A057/A101

AUTHORS: Zmeykov, V. N., Ustimenko, B. P.

TITLE: Investigation of the heat emission to mercury in the transition range under conditions of the inner problem

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 9, abstract 7I49 ("Tr. In-ta energ. AN KazSSR", 1961, 3, 147 - 155)

TEXT: The heat emission of technical Hg was investigated in the transition zone from laminar to turbulent movement ($300 \leq Re \leq 25,000$) in cylindrical tubes of stainless steel (diameter 1.5 mm, ratio length to diameter $l/d = 100$) and of Cu (diameter 2 mm, $l/d = 75$). The investigation was carried out based on a method which allowed the elimination of the measurement of the temperature drop between the inner surface of the heat exchanger and the heat carrier, by a preliminary calibration of the device with water. It was observed that the Nusselt number Nu decreases sharply with a decrease of the Pekle number Pe down to values which are smaller than boundary values for laminar conditions. Such a drop is explained by heterogeneity of the heat carriers. The form of the function

Card 1/2

Investigation of the...

S/137/62/000/007/035/072
A057/A101

$NuPr^{-1/3} \times (\mu/\mu_w)^{0.14} = f(Re)$ for Hg is analogous to the function for common liquids. There are 11 references.

L. Bystrov

[Abstracter's note: Complete translation]

Card 2/2

11801-00 EMI(1)/EMR(1)/ETC(F)/EPF(F)-2/ENC(1)/ENA(1)/ETC(1)/ENA(1) WT/65

ACC NR: AT6001361 SOURCE CODE: UR/0000/65/000/000/0148/0163

AUTHOR: Zmeykov, V. N.; Ustimenko, B. P.

ORG: Energetics Research Institute AN KazSSR (Nauchno-issledovatel'skiy institut energetiki AN KazSSR)

TITLE: Hydrodynamics and heat transfer for a twisted flow between coaxial cylinders

SOURCE: Teplo- i massopereenos. t. 1: Konvektivnyy teploobmen v odnorodnoy srede (Heat and mass transfer, v. 1: Convective heat exchange in an homogeneous medium). Minsk, Nauka i tekhnika, 1965, 148-163

TOPIC TAGS: hydrodynamics, convective heat transfer, fluid flow, Nusselt number

ABSTRACT: The article presents the results of an investigation of hydrodynamics and heat transfer in an annular channel with an inner rotating cylinder. It gives detailed experimental data on the distribution of the velocity, temperature and on a correlation characteristic of the heat transfer. It is shown that the effect of the rotation of the inner cylinder on the heat transfer is significant. The experimental results are compared with the theoretical calculations.

Card 1/2

Змеякова, Л. И.

507/4-22-7-4/25

Сokolova, O. I.

5(2), 5(4)
AUTHOR:

Results of the Competition for the Best Improving
Suggestion (Itogi konkursa na luchsheye raznoobraznitsatorskiye
predlozheniya)

TITLE:

PERIODICAL:

ABSTRACT:

In May 1959, the ordinary competition for the best improving suggestion in the field of topographic-geodetic and cartographic production was concluded at the Glavnoye upravleniye geodesii i kartografiy MVD SSSR (Main Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR). 7 aerogeodetic services, 6 cartographic institutes and MEKH took part. A total of 30 topographic-geodetic, and 31 cartographic, suggestions were submitted. The 1st prize of 1,000 rubles was awarded to O. I. Sokolova (Moscow) for her suggestion "Technique of Making Cartographic Maps of the USSR".

The 2nd prize of 750 rubles was awarded to: 1) Ya. L. Zaslavskiy, V. M. Yurugin, Yu. M. Galitskiy, O. P. Shalunov and V. P. Stepanov (MEKH) for "Technology of the Use of Standard Base (Alipovaya Shkola)". 2) I. V. Gurevich, E. M. Yurugin, E. O. Radzivil'skiy, O. D. Zhukov, L. I. Zaslavskiy for "Technology of the Manufacture of Composite Maps".

3) D. A. Legin (Moskovskoye AGP (Moscow AGP)) for "Reduction of Map in Evaluating the Accuracy of Dynamic Geodetic Data Formed by Figures of Regular Shape". 4) N. V. Gurevich (Moskovskoye AGP (Moscow AGP)) for "Light of 100th Anniversary of the USSR". 5) The 3rd prize of 400 rubles was awarded to: 1) L. I. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps by the Method of Threading by Means of Vapor". 2) Ya. L. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Construction of an Overhead Trolley for Timber Transport". 3) L. A. Krain (Moskovskoye AGP (Moscow AGP)) for "Variation in the Attachment of Photographs on the Map". 4) V. P. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Basing of Geometric Signs by 3-7 Meters". 5) D. A. Legin (Moskovskoye AGP (Moscow AGP)) for "Technology of the Copilation and Edition of Topographic Maps by the Photorelief Method". 6) E. P. Glushanin (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps for Technical Buildings". 7) L. I. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps for the Leading of Trucks".

8) A. E. Iskhonenko (Ukrainskoye AGP (Ukrainian AGP)) for "Replacement of the Arc Lamp for the Helio-graphic-printing Machine P-1 by an Illuminating Device with Luminescent Lamps PL-40". 9) G. L. Gurevich (Sverdlovskoye AGP (Sverdlovsk AGP)) for "Basing for Making in the Preparation of Map Compilations and Final Compilations". 10) E. M. Yurugin (Sverdlovskoye AGP (Sverdlovsk AGP)) for "Technique of Making Maps of the USSR". 11) L. I. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps of the USSR". 12) D. A. Legin (Moskovskoye AGP (Moscow AGP)) for "Reduction of Map in Evaluating the Accuracy of Dynamic Geodetic Data Formed by Figures of Regular Shape". 13) N. V. Gurevich (Moskovskoye AGP (Moscow AGP)) for "Light of 100th Anniversary of the USSR". 14) Ya. L. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps by the Method of Threading by Means of Vapor". 15) V. P. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Basing of Geometric Signs by 3-7 Meters". 16) D. A. Legin (Moskovskoye AGP (Moscow AGP)) for "Technology of the Copilation and Edition of Topographic Maps by the Photorelief Method". 17) E. P. Glushanin (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps for Technical Buildings". 18) L. I. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps for the Leading of Trucks".

19) A. E. Iskhonenko (Ukrainskoye AGP (Ukrainian AGP)) for "Replacement of the Arc Lamp for the Helio-graphic-printing Machine P-1 by an Illuminating Device with Luminescent Lamps PL-40". 20) G. L. Gurevich (Sverdlovskoye AGP (Sverdlovsk AGP)) for "Basing for Making in the Preparation of Map Compilations and Final Compilations". 21) E. M. Yurugin (Sverdlovskoye AGP (Sverdlovsk AGP)) for "Technique of Making Maps of the USSR". 22) L. I. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps of the USSR". 23) D. A. Legin (Moskovskoye AGP (Moscow AGP)) for "Reduction of Map in Evaluating the Accuracy of Dynamic Geodetic Data Formed by Figures of Regular Shape". 24) N. V. Gurevich (Moskovskoye AGP (Moscow AGP)) for "Light of 100th Anniversary of the USSR". 25) Ya. L. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps by the Method of Threading by Means of Vapor". 26) V. P. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Basing of Geometric Signs by 3-7 Meters". 27) D. A. Legin (Moskovskoye AGP (Moscow AGP)) for "Technology of the Copilation and Edition of Topographic Maps by the Photorelief Method". 28) E. P. Glushanin (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps for Technical Buildings". 29) L. I. Zaslavskiy (Moskovskoye AGP (Moscow AGP)) for "Technique of Making Maps for the Leading of Trucks".

Card 1/6

Card 2/6

Card 3/6

[illegible]

SOV/137-58-8-16269

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 5 (USSR)

AUTHOR: Zmicherovskiy, E.N., Perov, V. A.

TITLE: Reconstruction and Expansion of the Concentration Plants of the Apatite Kombinat (Rekonstruktsiya i rasshireniye obogatatel'nykh fabrik kombinata Apatit)

PERIODICAL: [Tr.] Vses. n.-i. i projektn. in-ta mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 102, pp 238-253

ABSTRACT: Flowsheets for the First and Second apatite-and-nepheline plants of the Apatite Kombinat are described and presented.

A.Sh.

1. Industrial plants--USSR 2. Apatite--Production 3. Nephelite
--Production

Card 1/1

ZMICHEROVSKIY, E.N.; PEROV, V.A., dotsent

Reorganizing and expanding ore-dressing plants at the Apatity
Combine. Trudy Melkhanobr no.102:238-253 '57. (MIRA 11:9)
(Apatity--Ore dressing)

ZMICHORSKI, E.

Hardenening gear wheels. p.395.

MECHANIK. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich)
Warszawa, Poland. Vol. 28, no.10, Oct. 1955.

Monthly list of East European Accession. (EEAI) LC, Vol.9, no.1, Jan.1960.

Uncl.

ZMIDZINSKI, JERZY

POLAND/Human and Animal Physiology - Blood. Blood Coagulation.

T-4

Abs Jour : Ref Zhur - Biol., No 10, 1958, 45971

Author : Zmidzinski, Jerzy; Zmudzinska, Maria

Inst : -

Title : The Antagonism between Heparin and ACTH [Adrenocorticotrophic Hormone] in Blood Coagulation Processes.

Orig Pub : Przegl. lekar., 1956, 12, No 10, 313-315

Abstract : Antagonistic relations exist in the process of blood coagulation between heparin (H) and ACTH, which are revealed by the fact that the initially prolonged coagulation time achieved through the influence of heparin decreases sharply when ACTH is administered. This effect is obviously unilateral, as there is no evidence that ACTH effects are eliminated by heparin. There exists a correlation between blood coagulation time and dosages of heparin and ACTH. Thus, 20 mg of ACTH produce a marked decrease of

Card 1/2

- 35 -

POLAND/Human and Animal Physiology - Blood. Biol.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065320002-1

Abs Jour : Ref Zhur - Biol., No 10, 1958, 45971

Abs blood coagulation time, initially prolonged by H, if the latter is administered in dosages of 30-100 units per 1 kg of weight. Only large dosages of H (200 units per 1 kg of weight) do not become affected by ACTH. Large dosages of ACTH do not inhibit the effects of H any more than do medium dosages (20 mg). -- T.N. Kalishevskaya

Card 2/2

Diatr: 4E2c

✓ The effect of magnetostrictive vibrations on the conversion of residual austenite into martensite. ²¹ Edward Zmgorzki. *Procc Inst. Met.* 6, 30-3(1957). Steel samples that were hardened and tempered at 210° (C 1.48, Mn 0.70, Si 0.35, Cr 1.30%) were subjected to magnetostrictive vibrations of the following type: 30 mda, 450 kc, ultrasounds of 1 Mc and more; alternating voltage of ± 30 kv/cm; 500 sec. Deep-seated changes were observed by magnetic and metallographic methods, particularly when magnetostriction was applied, these changes even more pronounced in the tempering process. Austenite content decreased, smaller areas of tetragonal ferrite were observed. From the literature. *Brit. J. Appl. Phys.* 1, 158 (1956). *Brit. J. Appl. Phys.* 1, 158 (1956).

21
1-1/2 (10)

CA

27

Oil and flour from the soy bean. STANISLAW KIMKOD. *Farmville Chem.* 16,
116-7(1930).—A review of the properties and uses of soy-bean oil and flour.
A. C. Z.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

12

Color reaction of the oil of sesame. STANISLAW ZACHARSKI. *Przemysl Chemic.* 13, 857-861(1920). In Poland it is required that all butter substitutes contain oil of sesame in sufficient quantity and of such a quality as to show a conclusive pin-flaourown reaction. A. C. ZACHARSKI

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

ZMIGRODZKA, II.

"Cooperation of the author, reviewer, and editor of technoscientific books."

p. 10 (Ochrona Pracy; Bezpieczenstwo I Higiena Pracy) Vol. 10, no. 2,
Feb. 1956
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

ZMIGRODZKI, LUDWIK

CHODKOWSKI, Alfred; PARNAS, Jozef; ZMIGRODZKI, Ludwik

Further studies on varieties of *Brucella* observed in Poland. Med.
dosw. mikrob. 9 no.3:275-279 1957.

1. Z Zakladu Antropozoonoz Instytutu Medycyny Pracy i Higieny Wsi
w Lublinie.

(BRUCELLA,
strains isolated in Poland (Pol))

ZMIGRODZKI, S.

TECHNOLOGY

Periodicals: PRZEGLAD BUDOWLANY Vol. 30, no. 7, July 1958

ZMIGRODZKI, S. Main trends of the technical progress in Warsaw constructions.
p. 257.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

ZMIGRODZKI, S.

For full and systematic execution of plans in the Warsaw building area. p. 257.
(PRZEGLAD BUDOWLANI, Vol. 26, No. 9, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.
1954, Uncl.

ZMIGRODZKI, W.

"High-tension circuit breaker drives and their adaptability for automatic reclosing."
p. 476. (Przegląd Elektrotechniczny, Vol. 29, no. 11/12, Dec 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

ZMIGRODSKI, W., (Engineer)

"Low Tension Industrial Switches."

SO: Hutnik, No. 5, Stalinogrod, May 1953 (Air, Treasure Island # 144566, Feb. 1954,
Unclassified.)

ZHMIKHORSKIY, E. [Zmihorski, E.], inzh. (Varshava)

Fatigue strength during the compression of tool steel. Metalloved.
1 term. obr. met. no. 10:24-28 0 '62. (MIRA 15:10)
(Tool steel--Testing)

ZMIHORSKI, Edward; TACIKOWSKI, Jan

Influence of the fast alternating magnetic field on the steel
nitriding process. Inst mech precyz 10 no.36:1-8 '62

JASIEWICZ, Romuald, dr inż.; RADZIKOWSKI, Adam, doc. dr inż.; MANTHEY, Tadeusz, dr inż.; PIETKA, Zenon, dr inż.; KAJETANOWICZ, Zbigniew, prof. dr inż.; MAJEWSKI, Wojciech, mgr inż.; KORDAS, Bolesław, mgr inż.; JACENKOW, Bolesław, mgr inż.; ZMIGRODZKI, Zbigniew, prof. dr inż.; MIKUCKI, Zygmunt, doc. dr inż.; SOBIERAJ, Jerzy, mgr inż.

Discussions on papers and communications. Rozpr hydrotechn no.12: 49-64 '62.

1. Technical University, Warsaw (for Jasiewicz, Zmigrodzki, Mikucki).
2. Technical University, Szczecin (for Radzikowski).
2. Research Institute of Hydraulic Engineering, Polish Academy of Sciences, Gdansk (for Manthey, Majewski, Jacenkov, Sobieraj).
4. State Hydrological and Meteorological Institute, Warsaw (for Pietka).
5. Technical University, Krakow (for Kajetanowicz, Kordas).

98-58-4-2/18

AUTHOR: Zmigrodski, Z., Professor

TITLE: Hydroelectric Power Engineering in the Polish Peoples Republic
(Gidroenergetika Pol'skoy Narodnoy Respubliki)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, ²¹Nr. 4, pp 5-10 (USSR)

ABSTRACT: The Polish Government established in 1952 a Committee for Water Control which was attached to the Polish Academy of Science. This committee is also in charge of hydroelectric power engineering. The annual output of electric energy has developed in Poland from 5.8 billion kw/hr in 1946 to 17 billion kw/hr in 1956. Nevertheless, the annual per capita consumption of electric power is only 650 kw/hr (1955). Poland's water resources are poor, only 1:5,000 of the world's resources, whereas the Polish population is 1:100 of the world's population. Based on the 1953 calculation of Poland's water resources, its annual hydroelectric power potential is 13.3 billion kw/hr of which only 0.5 billion kw/hr were utilized. The development of power engineering is based on the 5 year plan (1956-1960) and the project plan of the Committee for the period 1961-1970. Poland may reach the peak level of electric

Card 1/2

Hydroelectric Power Engineering in the Polish People's Republic 98-58-4-2/18

energy production in 1975. According to the Engineer Kopystyanskiy, electric power consumers can be divided into 5 groups:

1) Industrial enterprises; 2) RR Lines (It is intended to electrify 7,000 km of RR Lines which would take care of 85% of rail transport; 3) Population (cities, villages, the individual needs of the population); 4) Consumption of collective farms based on the acreage of cultivated land; 5) Loss of electric power in the grid and power consumed by the power plants.

The author gives recommendations as to the future development of Polish power program.

There are 3 tables, and 4 figures.

ASSOCIATION: Polish Academy of Sciences

AVAILABLE: Library of Congress

Card 2/2

1. Electric power production-Poland 2. Water power-Poland

ZMIGRODZKI, Zbigniew, prof. inż.

The role of water power plants in the over-all development of
electric power production in the U.S.S.R. Gosp wodna 22
no.12:534-537 D '62.

1. Politechnika, Warszawa.

ZMIHORSKI, E., mgr inz.

Sandwich structures in aviation. Pt.3. Techn lotn 18 no.12:
325-331 D°63.

ZNTHORSKI, E.

"Chroming Instruments", p. 231, (MECHANIK, Vol. 27, No. 6, June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (TEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

Reference: Tekhnika Letnitsa, no. 12, 1952, 343-354

TEXT: The characteristic features of sandwich panel construction are discussed, giving formulas for their flexural rigidity, the coefficients of loading, advantages and comparison of various materials used for cores and facings. Cores made of natural, synth-

Part 1,1

ZMIHORSKI, Edward

Modified high-speed cutting steels with higher carbon
contents. Inst. mech. precyz 11 no.41:51-70 '63.

ZMIJA, Ryszard, inz.

Outlines of water and sewage management in the mining industry.
Gaz woda techn sanit 37 no.11:377-379 N '63.

ZMILHORSKI, Edward, mgr inz.

Sandwich structures in aviation. Pt. 2. Techn letn 18 no.2:33-36
F '63.

ZMIHORSKI, Edward, mgr inz.

Sandwich structures in aviation. Pt. 3. Techn lctn 18 no.3:
66-69 Mr '63.

ZMIGRODZKIY, Z., prof.

Analysis of the most economic utilization of hydroelectric power
in Poland. Gidr.stroi. 27 no.12:33-37 D '58. (MIRA 12:1)

1. Pol'skaya akademiya nauk.
(Poland--Hydroelectric power)

AUTHOR: Zmigrodzkiy, Z., Professor SOV/98-58-12-8/21

TITLE: Analysis of the Most Efficient Utilization of Water Power
in Poland (Analiz naiboleye ekonomichnogo ispol'zovaniya
gidroenergii v Pol'she)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 12, pp 33 -
37 (USSR)

ABSTRACT: In the next 15 years, the existing water power resources
in Poland will provide no more than 20% of the planned elec-
tric power requirements. This fact forces Poland to strive
for a rational and economical utilization of these resources.
The main source of Polish water power is the Vistula River,
in particular that part from the mouth of the Bug downstream.
The author gives a detailed analysis of the existing chain
of hydroelectric power plants on the lower and upper Vistula,
and on the river Bug, and calculations of the water head,
of the electric power produced and of the utilization of

Card 1/2

SOV/98-58-12-8/21
Analysis of the Most Efficient Utilization of Water Power in Poland

the available resources. Furthermore, the author tries to determine the interrelations between hydroenergetics, general energetic and the water economy of the country. There are 2 tables, 5 graphs, and 1 Soviet reference.

ASSOCIATION: Pol'skaya Akademiya nauk (The Polish Academy of Sciences)

Card 2/2

ZMIHORSKI, Jan, mgr., inz.

Production of water turbines in Poland. Gosp wodna 22 no.1:4-6 '62.

ZMIHORSKI, Jan, adj

The application of combined pump-turbine units in the Polish pumped-storage electric plants. Energetyka Pol 14 no.11:332-337 N '60.
(EEAI 10:3)

1. Instytut Energetyki
(Poland--hydroelectric-power stations)

ZMIHORSKI, E